REISSUE PATENTS JANUARY 1977 -- DECEMBER 1999



March 2000 U.S. PATENT AND TRADEMARK OFFICE OFFICE FOR PATENT AND TRADEMARK INFORMATION/ TAF PROGRAM PK3 - SUITE 441, WASHINGTON, DC 20231 TEL (703) 306-2600/ FAX (703) 306-2737

A TECHNOLOGY ASSESSMENT AND FORECAST REPORT

This Technology Assessment and Forecast (TAF) Program Report profiles patent activity for U.S. reissue patents (hereafter referred to as patents) granted between 1977 and December 1999. The source of the data used for this report is the TAF data base maintained by the Office for Patent and Trademark Information.

Data Distribution By Date of Grant and By Date of Application

Parts A1 and A2

Part A1 distributes patent GRANT data by year of patent grant ("Patents Granted By Date of Patent Grant"). Part A2 distributes grant data by the year in which the patented application was filed ("Patents Granted By Date of Patent Application"). Parts A1 and A2 each provide patent counts (pages A1-1 and A2-1) and percent distributions (pages A1-2 and A2-2).

Patent data in the "Pre 1986" column corresponds to the period January 1, 1977 through December 31, 1985.

Part B

Part B of this report distributes patent GRANT data for organizations that have received U.S. patents since 1977. Data are presented by the year in which the patent was granted ("Patents By Year of Grant") and the year the patented application was filed ("Patents by Year of Application").

DATA FOR THOSE APPLICATIONS WHICH WERE FILED BUT NEVER ISSUED (ROUGHLY 40% OF TOTAL FILINGS) ARE NOT INCLUDED IN THIS REPORT.

Since the average time period between filing for a patent and the issuing of the patent (i.e., a patent's "pendency") is now about 24 months, the patented application data for the most recent years are incomplete.* This is because a significant number of the applications filed in the most recent years, which will ultimately become patents, were still pending in **December 1999.** Since they had not yet become patents at the time this report was prepared, they were not included in this report.

Patented application data are of significant value since the date an application was filed more accurately reflects when the technology was developed. Additionally, fluctuations in data based on application date are much more likely to reflect changes in technological activity, since such fluctuations would for the most part be immune from changes in PTO processing such as occurred in 1986 when the PTO issued fewer patents than would normally have been expected due to a lack of funds to print patents. Note that a patent's "pendency" can be quite variable from one patent to another thereby affecting the date of patent grant. Such variation in pendency is determined by

many factors, including PTO workload (which varies between technologies), budget and manpower levels, patent printing schedules, etc.

Parts of the Report

Parts A1 and A2 present tables which show, by number and percent, the patent activity. Part A1 presents data by year of patent grant ("Patents Granted by Date of Patent Grant"). Part A2 redistributes grant data by year of patent application ("Patents Granted by Date of Patent Application"). The location of patent origin is determined by the residence of the first-named inventor at the time of grant.

Information on **patent ownership** reflects ownership at the time of patent grant and does not include subsequent changes in ownership. If more than one assignee was declared at the time of grant, the patent is attributed to the first-named assignee. The U.S. and Foreign Corporations ownership categories count predominantly corporate patents; however, patents assigned to other organizations such as small businesses, nonprofit organizations, universities, etc. are also included in this category. While U.S. Government patent ownership includes only patents granted to the Federal Government, no such distinction is made for Foreign Government patents.

Part B is a ranked listing of national and international organizations (i.e., corporations, universities, government agencies) which have received 5 or more U.S. reissue patents since 1977. Data line 1 for each listed organization distributes counts of patent grants by year of grant. Data line 2 for each organization redistributes those same patent grants by year in which the patented application was filed. Information on patent ownership reflects ownership at the time of patent grant. Although a substantial effort has been made to combine name variations into a single organizational name, many organizations continue to have patents listed under more than one organizational name.

^{*} As of December 31, 1999, UTILITY patent application data (most issued patent documents are utility patents) were approximately 79% complete for patent applications filed in 1997 and 21% complete for applications filed in 1998. They are essentially complete for applications filed prior to 1997. Currently, completion percentages restricted to reissue patents are not available.

Part A1

Patent Grants As Distributed By Year of Patent Grant

							. .					1000					
		Patents	Granted	By Da	ate Of	Patent	Grant	(Granted:	Jan 01,	1977 -	Dec 31,	1999)					
								MBER OF									
	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	Total	
Total	2942	260	245	244	317	370	263	360	332	317	316	279	277	298	448	7268	
U.S. Origin	2149	183	160	167	212	241	171	231	207	194	208	175	173	195	274	4940	
Foreign Origin	793	77	85	77	105	129	92	129	125	123	108	104	104	103	174	2328	
JAPAN	231	26	33	28	49	58	53	66	61	59	61	49	51	48	86	959	
GERMANY	157	16	11	20	16	15	8	19	13	18	9	9	10	15	20	356	
UNITED KINGDOM	116	8	13	8	15	12	4	10	16	11	6	11	8	8	8	254	
FRANCE	52	10	3	1	6	9	5	4	9	7	3	9	5	7	14	144	
CANADA	45	2	3	2	5	9	6	5	6	9	5	5	4	7	8	121	
ITALY	23	2	2	1	1	3	3	1	1	2	4	4	13	4	14	78	
NETHERLANDS	30	4	5	5	2	2	5	6	3		4	3	2	1	4	76	
SWITZERLAND	28	3	3	6	1	6	3	4	2	2	3	5		1	1	68	
SWEDEN	38		3	1	1	3	2	3	3	1	1	1	3	2	4	66	
AUSTRALIA	14	2		1	1	1	1	3	1	4	1	1		2	1	33	
DENMARK	12	1		1		2		1	1	2			1	2	4	27	
ISRAEL	3	1	2		3	3			1		1	2		4	1	21	
AUSTRIA	6		1			1		2	2	1	1			2	1	17	
NORWAY	9	1	1	2					1						1	15	
BELGIUM	11				1	2		1								15	
FINLAND	2		1		1	1		1	1		2		1		1	11	
SOUTH KOREA									1		1	2	1		6	11	
TAIWAN			1	1				2	1	2	1		1			9	
NEW ZEALAND	4	1				2						1				8	
SPAIN	1									2	1		1			5	
INDONESIA	1										2	1				4	
SOUTH AFRICA	2				1				1							4	
BRAZIL	1				1								1			3	
LIECHTENSTEIN	1										1					2	
HUNGARY	1		1													2	
MEXICO	1												1			2	
CHINA, HONG KONG S.A.			1						1							2	
LUXEMBOURG					1		1									2	
IRELAND							1						1			2	
CZECHOSLOVAKIA	2															2	
ARGENTINA	_									2						2	
RUSSIAN FEDERATION										_	1	1				2	
THAILAND								1			=	=				1	
PORTUGAL			1					_								1	
CHILE	1		_													1	
PERU										1						1	
Others (1)	1									-						1	
CONCID (I)	_															_	
Ownership:																	
U.S. Corporations	1820	148	132	126	165	185	133	188	156	152	164	134	146	163	214	4026	
U.S. Government	7	2	102	1	103	103	133	2	3	1	1	101	1	103	1	20	
U.S. Individuals	390	37	36	40	51	61	44	47	52	45	49	46	33	39	66	1036	
0.5. Individuals	390	31	30	***	21	0Т	**	** /	34	43	47	*0	33	33	00	1030	
Foreign Corporations	606	66	69	70	85	107	78	112	105	110	96	91	92	93	158	1938	
Foreign Government	7	1	03	1	2	3	73	2	3	110	30	1	34	1	130	22	
Foreign Government Foreign Individuals	112	6	8	6	14	3 14	7	9	13	8	6	7	5	2	9	226	
roreign individuals	112	0	•	О	14	14	,	9	13	•	0	,	5	2	9	220	

REISSUE PATENTS, 1977 - 1999 Page Al- 2

		Patents	Granted	By Da	te Of	Patent	Grant (Granted:	Jan 01,	1977 -	Dec 31,	1999)					
							PER	CENT OF	PATENTS								
	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	Total	
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
U.S. Origin	73	70	65	68	67	65	65	64	62	61	66	63	62	65	61	68	
Foreign Origin	27	30	35	32	33	35	35	36	38	39	34	37	38	35	39	32	
JAPAN	8	10	13	11	15	16	20	18	18	19	19	18	18	16	19	13	
GERMANY	5	6	4	8	5	4	3	5	4	6	3	3	4	5	4	5	
UNITED KINGDOM	4	3	5	3	5	3	2	3	5	3	2	4	3	3	2	3	
FRANCE	2	4	1		2	2	2	1	3	2	1	3	2	2	3	2	
CANADA	2	1	1	1	2	2	2	1	2	3	2	2	1	2	2	2	
ITALY	1	1	1			1	1			1	1	1	5	1	3	1	
NETHERLANDS	1	2	2	2	1	1	2	2	1		1	1	1		1	1	
SWITZERLAND	1	1	1	2		2	1	1	1	1	1	2				1	
SWEDEN	1		1			1	1	1	1				1	1	1	1	
AUSTRALIA		1						1		1				1		0	
DENMARK						1				1				1	1	0	
ISRAEL			1		1	1						1		1		0	
AUSTRIA								1	1					1		0	
NORWAY				1				_	_					_		0	
BELGIUM				_		1										0	
FINLAND						_					1					0	
SOUTH KOREA											-	1			1	0	
TAIWAN								1		1		_			-	0	
NEW ZEALAND						1		-		_						0	
SPAIN										1						0	
INDONESIA										-	1					0	
SOUTH AFRICA											_					0	
BRAZIL																0	
LIECHTENSTEIN																0	
HUNGARY																0	
MEXICO																0	
	В															0	
CHINA, HONG KONG S.A. LUXEMBOURG	ĸ															0	
IRELAND																0	
CZECHOSLOVAKIA																0	
										-						0	
ARGENTINA RUSSIAN FEDERATION										1						0	
THAILAND																0	
PORTUGAL																0	
CHILE																0	
PERU																0	
																0	
Others (1)																U	
Ownorship:																	
Ownership: U.S. Corporations	62	57	54	52	52	50	51	52	47	48	52	48	53	55	48	55	
U.S. Government	62		34	54	54	50	21			45	54	45	53	33	48		
	1.2	1	1.5	16	16	16	177	1	1	1.4	1.0	16	10	1.2	1.5	0	
U.S. Individuals	13	14	15	16	16	16	17	13	16	14	16	16	12	13	15	14	
Foreign Corporations	0.5	0.5			0.5		20	21	20	25	20	2.2	2.2	21	25	0.7	
	21	25	28	29	27	29	30	31	32	35	30	33	33	31	35	27	
Foreign Government	_	_	_	_	1	1	_	1	1	_	_	_	_	_	_	0	
Foreign Individuals	4	2	3	2	4	4	3	3	4	3	2	3	2	1	2	3	

Part A2 Patent Grants As Distributed By Year of Patent Application

REISSUE PATENTS, 1977 - 1999 Page A2- 1

-	Pat	ents G	ranted E	By Date	Of Pat	ent App	lication	(Grant	ed: Jan	01, 1977	- Dec 3	1, 1999)				
						NT	UMBER OF	F PATENTE	ED APPLIC	CATIONS						
	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999 Total	
Total	3549	252	276	304	365	342	351	340	318	363	312	284	158	54	7268	
U.S. Origin	2574	168	183	192	231	214	215	218	200	228	194	188	102	33	4940	
Foreign Origin	975	84	93	112	134	128	136	122	118	135	118	96	56	21	2328	
roreign origin	313	0.1	93	112	134	120	130	122	110	133	110	30	30	21	2320	
															2-2	
JAPAN	296	35	52	45	76	67	65	61	56	65	56	47	29	9	959	
GERMANY	191	18	13	10	15	18	16	12	15	14	11	13	9	1	356	
UNITED KINGDOM	135	12	6	19	12	8	8	13	13	10	9	4	2	3	254	
FRANCE	65	1	6	8	5	10	7	6	6	7	12	6	3	2	144	
CANADA	52	4	1	7	7	7	9	6	7	7	6	5	3		121	
ITALY	27		2	3	3	1	3	4	3	11	13	2	3	3	78	
NETHERLANDS	43	2	2	6	1	5	4	5	1	2	2	1	2		76	
SWITZERLAND	34	4	4	5	5	2	2	4	2	5	1				68	
SWEDEN	40	3	1	1	3	3	3	1	1	1	3	3	3		66	
AUSTRALIA	17		_	1	2	2	6	1	_	1	•	3			33	
DENMARK	13	1		-	1	1	2	_	2	1	2	3		1	27	
				•							4					
ISRAEL	7	1	1	3	1	1		1	1	1		2	1	1	21	
AUSTRIA	7		1				2	3	1			3			17	
BELGIUM	11			2		2									15	
NORWAY	12	1						1			1				15	
FINLAND	4		1	1		1		1	1	2					11	
SOUTH KOREA							1		3	2		3	1	1	11	
TAIWAN	1		1		1		2	2	1			1			9	
NEW ZEALAND	5			1	1					1					8	
SPAIN	1						1		1	1	1				5	
SOUTH AFRICA	2	1					1								4	
INDONESIA	1	_					1		1	1					4	
BRAZIL	2						_		_	_	1				3	
LIECHTENSTEIN	1									1					2	
CZECHOSLOVAKIA	2														2	
HUNGARY	2														2	
CHINA, HONG KONG S.A.R	. 1							1							2	
LUXEMBOURG			2												2	
IRELAND					1				1						2	
ARGENTINA							1		1						2	
MEXICO	1									1					2	
RUSSIAN FEDERATION									1	1					2	
PORTUGAL		1													1	
THAILAND		_					1								1	
PERU							1								1	
	1															
CHILE	1														1	
Others (1)	1														1	
Ownership:																
U.S. Corporations	2175	125	147	144	176	163	172	164	169	182	158	146	82	23	4026	
U.S. Government	9	1			1	4	1	1	2			1			20	
U.S. Individuals	470	43	40	58	57	52	50	55	39	53	42	46	22	9	1036	
Foreign Corporations	760	72	80	91	112	109	116	111	100	119	109	85	53	21	1938	
Foreign Government	8	1	1	2	3	1	2	1	1		1	1			22	
Foreign Individuals	127	10	8	9	16	13	10	8	7	9	2	5	1	1	226	
- 																

	Pat	ents G	ranted H	By Date	Of Pat	ent App	lication	(Grant	ed: Jan	01, 1977	- Dec 3	1, 1999)				
								(,		_,,				
						Pi	ERCENT OF	PATENTE	D APPLIC	ATIONS						
	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999 Total	
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
U.S. Origin	73	67	66	63	63	63	61	64	63	63	62	66	65	61	68	
Foreign Origin	27	33	34	37	37	37	39	36	37	37	38	34	35	39	32	
JAPAN	8	14	19	15	21	20	19	18	18	18	18	17	18	17	13	
GERMANY	5	7	5	3	4	5	5	4	5	4	4	5	6	2	5	
UNITED KINGDOM	4	5	2	6	3	2	2	4	4	3	3	1	1	6	3	
FRANCE	2		2	3	1	3	2	2	2	2	4	2	2	4	2	
CANADA	1	2		2	2	2	3	2	2	2	2	2	2		2	
ITALY	1		1	1	1		1	1	1	3	4	1	2	6	1	
NETHERLANDS	1	1	1	2		1	1	1		1	1		1		1	
SWITZERLAND	1	2	1	2	1	1	1	1	1	1					1	
SWEDEN	1	1			1	1	1				1	1	2		1	
AUSTRALIA					1	1	2					1			0	
DENMARK							1		1		1	1		2	0	
ISRAEL				1								1	1	2	0	
AUSTRIA							1	1				1			0	
BELGIUM				1		1									0	
NORWAY															0	
FINLAND										1					0	
SOUTH KOREA									1	1		1	1	2	0	
TAIWAN							1	1							0	
NEW ZEALAND															0	
SPAIN															0	
SOUTH AFRICA															0	
INDONESIA															0	
BRAZIL															0	
LIECHTENSTEIN															0	
CZECHOSLOVAKIA															0	
HUNGARY															0	
CHINA, HONG KONG S.A.	R														0	
LUXEMBOURG			1												0	
IRELAND															0	
ARGENTINA															0	
MEXICO															0	
RUSSIAN FEDERATION															0	
PORTUGAL															0	
THAILAND															0	
PERU															0	
CHILE															0	
Others (1)															0	
Ownership:																
U.S. Corporations	61	50	53	47	48	48	49	48	53	50	51	51	52	43	55	
U.S. Government						1			1						0	
U.S. Individuals	13	17	14	19	16	15	14	16	12	15	13	16	14	17	14	
Foreign Corporations	21	29	29	30	31	32	33	33	31	33	35	30	34	39	27	
Foreign Government			_	1	1	_	1	_	_	_	_	_	_	_	0	
Foreign Individuals	4	4	3	3	4	4	3	2	2	2	1	2	1	2	3	

Part B

Ranked Listing of Organizations with Patent Grants
As Distributed By Year of Patent Grant
and As Distributed By Year of Patent Application

Page B - 1 REISSUE PATENTS, 1977 - 1999

Organizational Patenting	(Granted: Jan 01, 1977 - Dec 31, 1999)	- Ranked List of Organizations with	5 or More Patents

Organizational Patenting				(Grante	a: Jan C	11, 19//	- Dec 31	, 1999)	R	anked Li	st or or	ganizati	ons with	5 OF .	more Pat	ents	
	Pre																
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
HTM2 CHT I MD																	
HITACHI, LTD	_	_	_	_			_	_					_	_			
Patents By Year of Grant:	6	7	6	2	11	13	7	7	13	4	4	3	4	7	0	94	
Patents By Year of Application:	19	5	14	4	15	9	14	7	1	0	2	4	0	0	0	94	
GENERAL ELECTRIC COMPANY																	
Patents By Year of Grant:	30	5	2	2	1	3	6	5	8	2	3	2	2	1	2	74	
Patents By Year of Application:	38	2	2	0	7	5	7	2	2	4	3	0	2	0	0	74	
racenes by rear or apprication:	30	2	4	U	,	5	,	2	2	4	3	U	2	U	U	74	
AT&T CORP.																	
Patents By Year of Grant:	29	4	2	2	4	4	5	1	2	4	2	0	0	0	0	59	
Patents By Year of Application:	38	2	5	1	4	1	1	6	1	0	0	0	0	0	0	59	
MINNESOTA MINING AND MANUFACTURING CO	мрану																
					_	_					_		_				
Patents By Year of Grant:	17	4	1	0	1	4	0	1	2	3	7	2	5	1	4	52	
Patents By Year of Application:	21	2	1	3	2	2	1	5	5	2	2	3	3	0	0	52	
EASTMAN KODAK COMPANY																	
Patents By Year of Grant:	24	5	3	2	0	1	0	2	0	1	1	1	0	5	0	45	
Patents By Year of Application:	31	2	1	1	1	1	1	0	0	3	0	2	2	0	0	45	
ratenes by rear or apprication.	31		_	_	_	_	-	Ū	J	3	Ū		_	Ū	•	13	
E. I. DU PONT DE NEMOURS AND COMPANY																	
Patents By Year of Grant:	28	2	2	0	2	0	2	1	0	2	0	1	0	2	1	43	
Patents By Year of Application:	30	3	2	1	0	0	1	2	1	1	0	1	1	0	0	43	
INTERNATIONAL BUSINESS MACHINES CORPO	RATTON																
Patents By Year of Grant:	15	4	1	0	0	1	1	7	0	2	1	3	1	0	6	42	
									1								
Patents By Year of Application:	20	0	2	2	4	2	3	0	1	3	1	3	1	0	0	42	
MITSUBISHI DENKI KABUSHIKI KAISHA																	
Patents By Year of Grant:	1	1	0	1	1	5	2	1	3	6	2	3	4	1	7	38	
Patents By Year of Application:	2	1	2	2	2	4	5	5	4	1	4	5	1	0	0	38	
BAYER AKTIENGESELLSCHAFT																	
Patents By Year of Grant:	19	1	0	3	2	2	1	2	0	3	1	0	0	1	1	36	
Patents By Year of Application:	23	1	2	1	2	0	1	1	3	0	1	0	1	0	0	36	
CANON KABUSHIKI KAISHA																	
Patents By Year of Grant:	14	0	1	0	0	3	2	1	1	1	2	4	1	0	3	33	
Patents By Year of Application:	16	1	0	2	2	2	1	2	3	0	2	0	2	0	0	33	
racence by rear or apprication:	10	_	J	-	-	-	_		3	v	-	v	4	J	3	33	
CATERPILLAR INC.																	
Patents By Year of Grant:	25	0	1	0	1	0	1	1	0	0	0	1	0	0	1	31	
Patents By Year of Application:	25	1	0	1	0	1	1	0	0	1	0	0	1	0	0	31	

Organizational Patenting				(Grante	ed: Jan (1, 1977	- Dec 31	, 1999)	F	Ranked Li	st of Or	ganizati	ons with	5 or	More Pat	tents	
	Pre																
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
U.S. PHILIPS CORPORATION																	
Patents By Year of Grant:	16	1	1	0	2	0	1	4	1	1	1	0	2	0	1	31	
Patents By Year of Application:	19	0	0	2	1	2	1	3	1	1	1	0	0	0	0	31	
RCA CORPORATION																	
Patents By Year of Grant:	24	3	3	0	0	0	0	0	0	0	0	0	0	0	0	30	
Patents By Year of Application:	30	U	U	U	U	0	U	U	U	0	U	U	U	U	U	30	
DOW CHEMICAL COMPANY																	
Patents By Year of Grant:	15	1	1	2	1	1	1	1	0	3	0	0	1	0	0	27	
Patents By Year of Application:	19	1	0	1	1	0	1	3	1	0	0	0	0	0	0	27	
racence by rear or apprication:	17	_	J	_	_	3	-	3	-	J	Ü	•	J	Ū	3	2,	
EATON CORPORATION																	
Patents By Year of Grant:	19	1	0	1	0	0	1	0	1	1	0	0	0	1	0	25	
Patents By Year of Application:	20	1	0	0	1	0	1	1	0	0	0	1	0	0	0	25	
MATSUSHITA ELECTRIC INDUSTRIAL CO., LT	D.																
Patents By Year of Grant:	7	0	1	0	0	0	4	0	0	1	2	1	3	2	4	25	
Patents By Year of Application:	8	0	0	1	3	0	1	1	2	4	2	1	2	0	0	25	
SONY CORPORATION																	
Patents By Year of Grant:	6	1	1	1	0	4	2	0	0	3	1	2	1	2	1	25	
Patents By Year of Application:	8	1	0	2	4	0	1	1	3	2	2	1	0	0	0	25	
XEROX CORPORATION																	
Patents By Year of Grant:	12	2	1	1	2	2	0	1	0	0	0	0	2	1	0	24	
Patents By Year of Application:	16	2	1	0	2	0	0	0	0	0	3	0	0	0	0	24	
ASAHI KOGAKU KOGYO KABUSHIKI KAISHA																	
Patents By Year of Grant:	3	1	0	1	0	0	0	1	2	1	1	5	2	1	5	23	
Patents By Year of Application:	4	0	1	0	0	0	3	1	1	5	6	2	0	0	0	23	
racence by rear or application:	-	U	_	U	U	U	3	_	_	3	· ·	2	U	U	U	23	
TOSHIBA CORPORATION																	
Patents By Year of Grant:	0	1	1	1	0	0	0	2	0	2	3	1	1	5	4	21	
Patents By Year of Application:	1	1	1	0	1	1	0	2	4	2	4	1	2	1	0	21	
-1	=	_	_	,	-	_	-	=	-	=	=	_	=	=	•		
MOTOROLA, INC.																	
Patents By Year of Grant:	12	0	0	2	0	1	0	1	1	1	0	2	0	0	0	20	
Patents By Year of Application:	14	0	0	1	0	1	1	1	1	1	0	0	0	0	0	20	
ALLIED-SIGNAL INC.																	
Patents By Year of Grant:	10	0	1	0	2	1	0	0	1	1	2	1	0	0	0	19	
Patents By Year of Application:	11	2	0	1	0	0	1	1	1	1	1	0	0	0	0	19	

Organizational Patenting				(Grante	d: Jan (1, 1977	- Dec 31	, 1999)	F	Ranked Li	st of Or	ganizati	ons with	5 or	More Pat	ents	
	Pre																
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
ELI LILLY AND COMPANY																	
Patents By Year of Grant:	13	2	2	0	0	1	0	0	0	0	1	0	0	0	0	19	
Patents By Year of Application:	17	0	0	0	1	0	0	1	0	0	0	0	0	0	0	19	
MICRON TECHNOLOGY, INC.	•	•	•	•	0	•	0	•	1	1	0	•	1	8	8	10	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	1	0	-	0		0	-	19	
Patents By Year of Application:	0	U	0	0	U	U	U	1		U	5	12	0	U	0	19	
TEXAS INSTRUMENTS, INCORPORATED																	
Patents By Year of Grant:	7	0	0	0	0	3	1	1	1	1	2	2	0	0	1	19	
Patents By Year of Application:	7	1	0	2	3	2	0	1	1	1	1	0	0	0	0	19	
MINOLTA CAMERA CO., LTD.																	
Patents By Year of Grant:	4	0	1	0	2	1	0	1	4	2	0	0	2	0	1	18	
Patents By Year of Application:	5	2	0	2	0	1	4	1	1	0	2	0	0	0	0	18	
MOBIL OIL CORP.																	
Patents By Year of Grant:	9	3	0	0	2	0	1	1	2	0	0	0	0	0	0	18	
Patents By Year of Application:	12	1	0	1	1	0	3	0	0	0	0	0	0	0	0	18	
ratenes by rear or apprication:	12	_	U	_	_	U	3	U	U	U	U	U	U	U	U	10	
UNISYS CORPORATION																	
Patents By Year of Grant:	16	0	1	0	0	1	0	0	0	0	0	0	0	0	0	18	
Patents By Year of Application:	17	0	0	0	1	0	0	0	0	0	0	0	0	0	0	18	
IMPERIAL CHEMICAL INDUSTRIES PLC																	
Patents By Year of Grant:	8	0	0	0	2	1	0	2	1	1	0	1	0	0	1	17	
Patents By Year of Application:	9	0	0	3	1	1	2	0	1	0	0	0	0	0	0	17	
DULLI IDG DIMDOLIUM GOMDANI																	
PHILLIPS PETROLEUM COMPANY	10	•	-	•	•	-		•	•	•	•	•	•	0	•	1.0	
Patents By Year of Grant:	10 13	2	1	0	0 1	1	1	0 1	2	0	0	0	0	0	0	17 17	
Patents By Year of Application:	13	U	U	U		1			U	U	U	U	U	U	U	17	
SGS-THOMSON MICROELECTRONICS S.R.L.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	2	1	8	3	3	17	
Patents By Year of Application:	0	0	0	0	0	0	0	2	1	6	6	2	0	0	0	17	
UNION CARBIDE CORPORATION																	
Patents By Year of Grant:	15	0	1	1	0	0	0	0	0	0	0	0	0	0	0	17	
Patents By Year of Application:	16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	17	
UNITED TECHNOLOGIES CORPORATION																	
Patents By Year of Grant:	7	2	1	0	1	0	1	3	0	0	0	0	0	1	1	17	
Patents By Year of Application:	10	0	0	1	1	3	0	0	0	0	0	1	0	1	0	17	

Organizational Patenting				(Grante	ed: Jan 0	1, 1977	- Dec 31	, 1999)	R	anked Li	st of Or	ganizati	ons with	5 or 1	More Pat	ents	•
	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
	1900	1900	1907	1900	1909	1990	1991	1992	1993	1994	1995	1996	1997	1990	1999	IOIAL	
AMERICAN CYANAMID COMPANY																	
Patents By Year of Grant:	10	0	0	2	1	0	1	0	0	0	0	0	0	1	1	16	
Patents By Year of Application:	11	0	2	0	0	1	0	0	0	0	0	2	0	0	0	16	
AMP INCORPORATED																	
Patents By Year of Grant:	8	1	3	1	0	2	0	0	0	1	0	0	0	0	0	16	
Patents By Year of Application:	10	3	1	0	1	0	0	1	0	0	0	0	0	0	0	16	
BASF AKTIENGESELLSCHAFT																	
Patents By Year of Grant:	3	2	0	2	1	2	0	2	0	1	1	2	0	0	0	16	
Patents By Year of Application:	5	1	1	2	1	2	0	1	1	2	0	0	0	0	0	16	
racence by rear or appricacion.	,							_			•	•	· ·		· ·	10	
NEC CORPORATION																	
Patents By Year of Grant:	9	0	0	1	0	0	1	0	1	0	0	0	0	2	2	16	
Patents By Year of Application:	10	0	0	0	0	1	1	0	0	1	1	0	2	0	0	16	
NIPPON GAKKI SEIZO KABUSHIKI KAISHA																	
Patents By Year of Grant:	11	1	1	1	2	0	0	0	0	0	0	0	0	0	0	16	
Patents By Year of Application:	15	0	1	0	0	0	0	0	0	0	0	0	0	0	0	16	
DEGOV GOVERNMY AND																	
RICOH COMPANY, LTD.	3	0	1	0	1	2	0	1	1	0	2	0	2	0	3	16	
Patents By Year of Grant: Patents By Year of Application:	4	0	0	3	2	0	1	1	0	2	0	2	1	0	0	16	
racence by rear or apprication.	-	•	· ·	,		•	_	_	J		•		-		·	10	
WESTINGHOUSE ELECTRIC CORP.																	
Patents By Year of Grant:	13	0	0	0	1	1	0	0	0	0	0	0	0	1	0	16	
Patents By Year of Application:	13	1	0	1	0	0	1	0	0	0	0	0	0	0	0	16	
BAXTER INTERNATIONAL INC.																	
Patents By Year of Grant:	9	1	1	0	0	0	2	0	0	1	0	0	0	1	0	15	
Patents By Year of Application:	12	0	1	0	0	0	0	0	2	0	0	0	0	0	0	15	
FUJITSU LIMITED																	
Patents By Year of Grant:	2	0	0	0	0	1	3	0	2	0	1	0	0	2	4	15	
Patents By Year of Application:	2	1	1	1	1	1	1	0	1	0	0	3	3	0	0	15	
Tatalog by Tour or imprincation.	~	-	-	-	-	-	-	•	-	·	·	-	,	·	J		
NIKON CORPORATION																	
Patents By Year of Grant:	3	0	1	1	0	0	0	1	1	1	0	0	2	3	2	15	
Patents By Year of Application:	4	1	0	0	0	1	1	1	0	2	2	3	0	0	0	15	
DEERE + COMPANY																	
Patents By Year of Grant:	12	0	0	1	0	0	0	1	0	0	0	0	0	0	0	14	
Patents By Year of Application:	12	0	1	0	0	1	0	0	0	0	0	0	0	0	0	14	

REISSUE PATENTS, 1977 - 1999 Page B - 5

REISSUE PAIENIS, 1977 - 1999															Page	Б- 5	
Organizational Patenting				(Grante	ed: Jan 0	1, 1977	- Dec 31	, 1999)	R	anked Li	st of Or	ganizati	ons with	5 or 1	More Pat	ents	_
												-					
	Pre																
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
DOW CORNING CORPORATION	_	•	•	_	•			_	•	_	_	_	_	_	•	1.4	
Patents By Year of Grant:	5 7	2 0	0	0 1	0 1	2 1	1 0	0 1	0 2	1 1	1 0	1 0	1 0	0	0	14 14	
Patents By Year of Application:	,	U	U	_	1	1	U		2		U	U	U	U	U	14	
EXXON RESEARCH + ENGINEERING CO.																	
Patents By Year of Grant:	10	0	0	0	1	1	0	0	0	0	1	0	1	0	0	14	
Patents By Year of Application:	10	1	0	1	0	0	0	0	2	0	0	0	0	0	0	14	
GENERAL MOTORS CORPORATION																	
Patents By Year of Grant:	4	0	0	0	0	1	3	2	0	2	0	0	0	1	1	14	
Patents By Year of Application:	4	0	0	1	1	2	2	1	1	0	0	1	1	0	0	14	
HONEYWELL INC.																	
Patents By Year of Grant:	8	0	0	0	2	0	0	0	0	0 1	1 1	1	1 0	0	1	14	
Patents By Year of Application:	10	0	U	0	0	0	U	0	U	1	1	2	U	U	0	14	
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	V																
Patents By Year of Grant:	- 6	0	0	1	0	0	0	1	0	1	1	0	0	1	3	14	
Patents By Year of Application:	7	0	0	0	0	1	1	1	0	2	1	1	0	0	0	14	
OUTBOARD MARINE CORPORATION																	
Patents By Year of Grant:	4	1	1	2	1	0	0	1	1	1	1	0	0	0	1	14	
Patents By Year of Application:	6	2	2	0	1	0	0	1	1	0	0	1	0	0	0	14	
ROBERT BOSCH GMBH	_	_			_	_	_			_		_					
Patents By Year of Grant:	8	1	0	1 0	1 0	0	0	0 1	0 1	1 0	0	1 0	0 1	0	1 0	14	
Patents By Year of Application:	9	1	1	U	U	0	0	1	1	U	U	U	1	0	U	14	
ROCKWELL INTERNATIONAL CORPORATION																	
Patents By Year of Grant:	11	0	0	0	1	0	0	0	0	0	0	1	0	0	1	14	
Patents By Year of Application:	11	0	1	0	0	0	0	1	0	0	0	1	0	0	0	14	
YAMAHA HATSUDOKI KABUSHIKI KAISHA, YA	AMAHA MOT	OR CO.,	LTD.														
Patents By Year of Grant:	4	0	0	1	0	1	0	1	1	2	2	1	1	0	0	14	
Patents By Year of Application:	5	0	0	0	2	0	1	3	0	3	0	0	0	0	0	14	
CIBA-GEIGY CORPORATION	_																
Patents By Year of Grant:	7	0	1	0	0	1	0	0	0	1	2	1	0	0	0	13	
Patents By Year of Application:	8	0	0	0	1	0	0	1	2	1	0	0	0	0	0	13	
HONDA GIKEN KOGYO KABUSHIKI KAISHA (I	HONDA MOT	OR CO.	LTD.)														
Patents By Year of Grant:	2	0	0	0	0	5	1	2	0	1	1	0	0	0	1	13	
	_	•	-	-		_	_	_	-			-	•	•	_		

Patents By Year of Application:

REISSUE PATENTS, 1977 - 1999 Page B - 6

Organizational Patenting				(Grante	d: Jan 0	1, 1977	- Dec 31	, 1999)	I	Ranked Li	st of Or	ganizati	ons with	5 or	More Pat	cents
	Pre															
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
NISSAN MOTOR COMPANY, LIMITED																
Patents By Year of Grant:	4	1	2	0	0	0	0	2	1	1	0	1	1	0	0	13
Patents By Year of Application:	7	0	1	0	1	2	0	1	0	1	0	0	0	0	0	13
SIEMENS AKTIENGESELLSCHAFT																
Patents By Year of Grant:	7	0	0	0	0	0	1	1	0	0	1	0	0	0	3	13
Patents By Year of Application:	8	0	0	0	1	0	0	0	1	0	1	1	1	0	0	13
FUJI PHOTO FILM CO., LTD																
Patents By Year of Grant:	4	0	1	0	2	0	0	1	1	0	1	0	0	1	1	12
Patents By Year of Application:	6	1	0	0	0	1	1	2	0	0	0	0	1	0	0	12
MONSANTO COMPANY, INC.																
Patents By Year of Grant:	9	0	0	1	1	1	0	0	0	0	0	0	0	0	0	12
Patents By Year of Application:	10	0	0	1	1	0	0	0	0	0	0	0	0	0	0	12
OLYMPUS OPTICAL CO., LTD.																
Patents By Year of Grant:	0	1	1	0	0	0	1	3	1	1	1	0	1	0	2	12
Patents By Year of Application:	2	0	0	0	1	3	3	0	1	0	1	0	1	0	0	12
SEIKO EPSON CORPORATION																
Patents By Year of Grant:	0	0	0	0	1	0	0	2	1	0	3	2	0	1	2	12
Patents By Year of Application:	0	0	0	1	4	1	1	0	0	3	0	2	0	0	0	12
DANA CORPORATION																
Patents By Year of Grant:	0	0	2	1	1	2	1	2	0	0	0	0	0	0	2	11
Patents By Year of Application:	2	1	3	0	0	2	1	0	0	0	0	1	1	0	0	11
WORKER AVERTHER COLL COLLEGE																
HOECHST AKTIENGESELLSCHAFT	_	•	•	•	•	•	•	•	•	•	•	•	•	-	•	11
Patents By Year of Grant:	6 6	0	0	0	0	0	0	0 2	0	0	2	0	0	1	0	11 11
Patents By Year of Application:	0	U	U	U	U	1	U	2	U	2	U	U	U	U	U	11
OLIN CORPORATION																
Patents By Year of Grant:	5	2	0	1	1	٥	0	1	0	0	0	1	0	0	0	11
Patents By Year of Application:	7	2	0	0	0	1	0	0	0	1	0	0	0	0	0	11
racence of rear or apprication:	,	4	Ū	J	J	-	J	Ü	J	_	· ·	J	J	Ū	J	
PROCTER + GAMBLE COMPANY																
Patents By Year of Grant:	3	1	0	1	0	0	0	2	0	2	1	0	0	0	1	11
Patents By Year of Application:	4	0	1	0	2	1	2	0	0	0	0	0	0	1	0	11
SCHLUMBERGER TECHNOLOGY CORPORATION																
Patents By Year of Grant:	4	1	2	0	2	0	0	0	0	0	1	0	0	1	0	11
Patents By Year of Application:	7	0	2	0	0	0	0	0	0	1	0	1	0	0	0	11

Organizational Patenting				(Grante	d: Jan (1, 1977	- Dec 31	, 1999)	I	Ranked Li	st of Or	ganizati	ons with	5 or	More Pat	ents	
	Pre																
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
SGS-THOMSON MICROELECTRONICS S.A.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	2	0	3	1	1	4	11	
Patents By Year of Application:	0	0	0	0	0	0	1	0	2	4	3	1	0	0	0	11	
UPJOHN COMPANY																	
Patents By Year of Grant:	8	0	0	0	1	1	0	0	0	0	1	0	0	0	0	11	
Patents By Year of Application:	8	0	0	2	0	0	0	1	0	0	0	0	0	0	0	11	
AMOCO CORPORATION																	
Patents By Year of Grant:	7	0	0	0	0	0	0	0	2	0	0	0	1	0	0	10	
Patents By Year of Application:	7	0	0	1	0	0	0	1	0	1	0	0	0	0	0	10	
racenes by rear or application.	,	v	v	-	v	J	U	-	Ū	-	Ū	Ū	Ū	J	v	10	
HOFFMANN-LA ROCHE INC.																	
Patents By Year of Grant:	8	0	0	0	0	0	0	1	0	0	1	0	0	0	0	10	
Patents By Year of Application:	8	0	0	0	0	1	0	1	0	0	0	0	0	0	0	10	
MOLEX INCORPORATED																	
Patents By Year of Grant:	0	0	0	2	1	0	1	0	1	1	0	2	0	2	0	10	
Patents By Year of Application:	0	0	3	0	0	1	1	0	2	0	1	2	0	0	0	10	
WINTOWN DESCRIPTION DESCRIPTION SOCIONAL																	
NATIONAL RESEARCH DEVELOPMENT CORPORA Patents By Year of Grant:	.TION 6	0	0	0	0	0	1	1	2	0	0	0	0	0	0	10	
Patents By Year of Application:	6	0	0	1	1	0	1 2	0	0	0	0	0	0	0	0	10 10	
racenes by rear or apprication:	U	U	U	_	_	U	2	U	U	U	U	U	U	U	U	10	
OTIS ENGINEERING CORPORATION																	
Patents By Year of Grant:	6	0	3	0	0	0	1	0	0	0	0	0	0	0	0	10	
Patents By Year of Application:	9	0	1	0	0	0	0	0	0	0	0	0	0	0	0	10	
SHELL OIL COMPANY																	
Patents By Year of Grant:	6	0	0	1	0	1	0	0	0	0	0	1	1	0	0	10	
Patents By Year of Application:	6	1	0	1	0	0	0	0	0	0	2	0	0	0	0	10	
DETILI ELIEM CITEEL CODDODATION																	
BETHLEHEM STEEL CORPORATION	8	0	0	0	0	0	0	0	0	0	0	0	1	0	0	9	
Patents By Year of Grant: Patents By Year of Application:	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	
racence by rear or Apprication:	0	U	U	U	U	U	U	U	U	1	U	U	U	U	U	9	
BORG-WARNER CORPORATION																	
Patents By Year of Grant:	7	0	0	2	0	0	0	0	0	0	0	0	0	0	0	9	
Patents By Year of Application:	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	9	
BRISTOL-MYERS SQUIBB COMPANY																	
Patents By Year of Grant:	6	0	0	0	1	0	0	0	0	0	0	0	1	0	1	9	
Patents By Year of Application:	6	0	0	1	0	0	0	0	1	1	0	0	0	0	0	9	

											_			_			
Organizational Patenting				(Grante	d: Jan 0	1, 1977	- Dec 31,	, 1999)	Ra	anked Li	st of Org	ganizatio	ons with	5 or 1	More Pat	ents	
	Pre																
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
BROTHER KOGYO KABUSHIKI KAISHA																	
Patents By Year of Grant:	1	0	0	0	1	0	0	0	1	1	2	1	1	0	1	9	
Patents By Year of Application:	1	0	1	0	1	1	1	1	0	1	2	0	0	0	0	9	
CHEVRON RESEARCH & TECHNOLOGY CO.																	
Patents By Year of Grant:	5	0	1	0	1	0	0	0	1	0	0	0	0	0	1	9	
Patents By Year of Application:	6	1	0	0	0	0	1	0	0	1	0	0	0	0	0	9	
racence by rear or appricacion.								Ū	Ū	-			Ū	•	· ·		
ROHM AND HAAS COMPANY																	
	_								_				•		_	•	
Patents By Year of Grant:	7	0	0	0	0	0	0	0	1	0	0	0	0	0	1	9	
Patents By Year of Application:	7	0	0	0	0	1	0	0	0	0	0	0	1	0	0	9	
THOMAS + BETTS CORPORATION																	
Patents By Year of Grant:	6	1	1	0	0	0	0	0	0	0	1	0	0	0	0	9	
Patents By Year of Application:	8	0	0	0	0	0	0	0	1	0	0	0	0	0	0	9	
TRW INC.																	
Patents By Year of Grant:	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	9	
Patents By Year of Application:	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	
1400105 27 1041 01 144110401011							•						•				
VICTOR COMPANY OF JAPAN, LIMITED																	
	3	-	0	0	•	0	0	0	0	0	3	1	-	0	0	9	
Patents By Year of Grant:	3 4	1 0			0	0	0		3		0	0	1 0		0		
Patents By Year of Application:	4	U	0	0	U	U	U	1	3	1	U	U	U	0	U	9	
ASAHI KASEI KOGYO KABUSHIKI KAISHA																	
Patents By Year of Grant:	3	1	0	1	0	0	0	1	0	0	1	0	1	0	0	8	
Patents By Year of Application:	4	1	0	0	1	1	0	0	0	1	0	0	0	0	0	8	
GIST-BROCADES N.V.																	
Patents By Year of Grant:	4	1	1	1	0	0	0	1	0	0	0	0	0	0	0	8	
Patents By Year of Application:	6	1	0	0	0	1	0	0	0	0	0	0	0	0	0	8	
GOODYEAR TIRE + RUBBER COMPANY																	
Patents By Year of Grant:	3	1	2	2	0	0	0	0	0	0	0	0	0	0	0	8	
Patents By Year of Application:	5	2	1	0	0	0	0	0	0	0	0	0	0	0	0	8	
	-	_	-	, , , , , , , , , , , , , , , , , , ,	,	-	,	<u> </u>	-	<u> </u>			-	-		-	
HEWLETT-PACKARD COMPANY																	
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	1	0	0	1	1	8	
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	2	0	0	0	1	0	8	
racents by rear or Apprication:	5	U	U	U	U	U	U	U	U		U	U	U	_	U	0	
THEEDINA HTOWAY DARRES CO																	
INTERNATIONAL PAPER CO.	_	_				_			•				•		_		
Patents By Year of Grant:	2	1	0	0	2	2	0	0	0	0	0	0	0	0	1	8	
Patents By Year of Application:	3	1	1	0	2	0	0	0	0	0	0	0	0	1	0	8	

REISSUE PATENTS, 1977 - 1999 Page B - 9

Organizational Patenting	(Granted: Jan 01, 1977 - Dec 31, 1999)	Ranked List of Organizations with 5 or More Patents

3. 3						•						•					
	Pre																
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
			2507								2000						
KONICA CORPORATION																	
Patents By Year of Grant:	1	0	0	0	0	0	1	1	1	1	0	0	1	0	2	8	
Patents By Year of Application:	1	0	0	1	0	3	0	0	0	0	2	1	0	0	0	8	
1 dooned 27 loar of hpp110do10iii	_	·	•	_	·		•	•	·	•	_	_	•	•	·	•	
MEAD CORPORATION																	
Patents By Year of Grant:	5	0	0	0	1	0	1	0	0	0	0	1	0	0	0	8	
Patents By Year of Application:	5	0	0	1	1	0	0	0	0	1	0	0	0	0	0	8	
1 dooned 27 loar of hpp110do10iii		·	•	_	_	•	•	•	·	_	•	•	•	•	·	•	
PAPST-MOTOREN KG																	
Patents By Year of Grant:	1	0	0	1	0	1	0	2	2	0	0	0	0	1	0	8	
Patents By Year of Application:	2	0	1	0	3	1	0	0	0	0	0	1	0	0	0	8	
	_	ŭ	_	•	J	_	J	ŭ	J	,	,	-	ū	ū	J	•	
R. J. REYNOLDS TOBACCO COMPANY																	
Patents By Year of Grant:	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
Patents By Year of Application:	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
	•	ŭ	J	•	ū	,	J	ŭ	J	,	,	,	ū	ū	J	•	
SANDERS ASSOCIATES INC.																	
Patents By Year of Grant:	3	2	1	2	0	0	0	0	0	0	0	0	0	0	0	8	
Patents By Year of Application:	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
14001105 27 1041 01 11551104010111	•	_	•	·	•	•	•	•	•	•	•	•	•	•	·	•	
SHARP KABUSHIKI KAISHA (SHARP CORPOR	ATION)																
Patents By Year of Grant:	2	0	0	0	0	2	0	0	1	0	0	1	2	0	0	8	
Patents By Year of Application:	2	0	0	0	2	0	0	1	2	1	0	0	0	0	0	8	
1 dooned 27 loar of hpp110do10iii	_	·	•	·	-	•	•	_	_	_	•	•	•	•	·	•	
SUWA SEIKOSHA CO., LTD.																	
Patents By Year of Grant:	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
Patents By Year of Application:	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
	-	-	-	_	-	-	-	-	-	_	_	-	-	_	_	-	
ABBOTT LABORATORIES																	
Patents By Year of Grant:	4	0	0	0	0	1	0	1	1	0	0	0	0	0	0	7	
Patents By Year of Application:	4	0	2	0	1	0	0	0	0	0	0	0	0	0	0	7	
AKZONA INCORPORATED																	
Patents By Year of Grant:	5	0	1	1	0	0	0	0	0	0	0	0	0	0	0	7	
Patents By Year of Application:	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -	•	-	-	-	-	,	-	-	,	,	,	,	-	-	•	-	
BRUNSWICK CORPORATION																	
Patents By Year of Grant:	4	0	0	1	1	0	1	0	0	0	0	0	0	0	0	7	
Patents By Year of Application:	4	0	1	1	1	0	0	0	0	0	0	0	0	0	0	7	
-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -	=	-	_	_	=	,	-	-	,	,	,	,	-	-	•	-	
CARRIER CORPORATION																	
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	0	0	1	1	7	
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	1	1	0	0	0	7	
	_	-	-	-	-	-	-	-	-	•	_	_	-	-	•		

REISSUE PATENTS, 1977 - 1999

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Organizational Patenting				(Grante	d: Jan (01, 1977	- Dec 31	, 1999)	F	Ranked Li	st of Or	ganizati	ons with	5 or	More Pat	ents	
	Pre																
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
CORNING INCORPORATED					_						_	_				_	
Patents By Year of Grant:	2	0	0	0	0	1	0	1	1	1	0	0	0	0	0	7	
Patents By Year of Application:	3	U	U	U	U	1	U	1	1	1	U	U	U	U	U	,	
ELF ATOCHEM NORTH AMERICA, INC.		^	1	0	-	•	1	-	^	,	•	•	^	1	^	7	
Patents By Year of Grant: Patents By Year of Application:	1	0	1	0	1	1	1	1	0	0	1	0	0	0	0	7	
-	3	U	1	U	U	_	_	U	U	U	_	U	U	U	U	,	
EXXON PRODUCTION RESEARCH COMPANY								_								_	
Patents By Year of Grant:	4	0	0	0	0	2	0	1	0	0	0	0	0	0	0	7	
Patents By Year of Application: HALLIBURTON CO.	5	0	0	0	2	0	0	0	0	0	0	0	0	0	0	7	
Patents By Year of Grant:	5	1	0	1	0	0	0	0	0	0	0	0	0	0	0	7	
Patents By Year of Application:	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
HOBART CORPORATION	v	_	·	·	·	·	·	•	·	·	·	·	·	·	·	•	
Patents By Year of Grant:	6	0	0	0	0	0	1	0	0	0	0	0	0	0	0	7	
Patents By Year of Application:	6	0	0	0	1	0	0	0	0	0	0	0	0	0	0	7	
HUGHES AIRCRAFT COMPANY	ŭ	v	ŭ	v	_	J	v	ŭ	ŭ	ŭ	Ū	v	v	Ū	Ü	•	
Patents By Year of Grant:	3	0	0	0	1	0	0	0	2	0	1	0	0	0	0	7	
Patents By Year of Application:	4	0	0	0	0	0	2	0	0	1	0	0	0	0	0	7	
MEDTRONIC INC.	_	-	-	-	-	-	_	-		_	-	-	-		-		
Patents By Year of Grant:	2	2	2	0	0	0	0	0	0	0	0	0	1	0	0	7	
Patents By Year of Application:	6	0	0	0	0	0	0	0	0	1	0	0	0	0	0	7	
-	· ·	Ū	Ū	Ū	Ū	J	v	Ü	v	-	Ū	v	v	Ü	Ü	,	
NIPPONDENSO CO., LTD.	_									_	_		_		_	_	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	1	3 1	0	1	0	0	7 7	
Patents By Year of Application:	1	0	0	0	0	1	0	0	4	0	1	0	O	0	0	7	
OWENS-ILLINOIS INC.																	
Patents By Year of Grant:	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
Patents By Year of Application:	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
PITNEY-BOWES, INC.																	
Patents By Year of Grant:	5	0	0	0	0	0	0	0	2	0	0	0	0	0	0	7	
Patents By Year of Application:	5	0	0	0	1	0	1	0	0	0	0	0	0	0	0	7	
SAMSUNG ELECTRONICS CO., LTD.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	1	0	1	1	0	0	4	7	
Patents By Year of Application:	0	0	0	0	0	0	1	0	3	0	0	1	1	1	0	7	

Organizational Patenting				(Grante	d: Jan (1, 1977	- Dec 31	, 1999)	F	anked Li	st of Or	ganizati	ons with	5 or	More Pat	ents	
	Pre																
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
STAUFFER CHEMICAL COMPANY																	
Patents By Year of Grant:	6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	7	
Patents By Year of Application:	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
TOYOTA JIDOSHA K.K.																	
Patents By Year of Grant:	0	1	0	0	0	0	4	1	0	0	0	0	0	1	0	7	
Patents By Year of Application:	1	0	0	0	4	1	0	0	0	0	0	1	0	0	0	7	
UNIVERSITY OF CALIFORNIA, THE REGENTS		^	^	^	^	^	^	^	-	4	^	^	4	^	^	7	
Patents By Year of Grant:	2	0	0	0	0	2	0	0	1	1	0	0	1	0	0	· ·	
Patents By Year of Application:	3	0	0	1	1	U	U	2	U	U	U	U	0	U	0	7	
WARNER-LAMBERT COMPANY																	
Patents By Year of Grant:	4	0	1	1	0	1	0	0	0	0	0	0	0	0	0	7	
Patents By Year of Application:	5	0	2	0	0	0	0	0	0	0	0	0	0	0	0	7	
YAMAHA CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	0	3	0	0	1	1	1	0	1	0	7	
Patents By Year of Application:	0	1	1	1	0	0	1	1	1	1	0	0	0	0	0	7	
ADVANCED CARDIOVASCULAR SYSTEMS, INC.																	
Patents By Year of Grant:	0	0	0	0	0	1	0	1	1	2	0	1	0	0	0	6	
Patents By Year of Application:	0	1	0	1	0	1	0	3	0	0	0	0	0	0	0	6	
B. F. GOODRICH CO.																	
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	1	0	0	0	0	0	6	
Patents By Year of Application:	5	0	0	0	0	0	0	1	0	0	0	0	0	0	0	6	
BALL CORPORATION		_	_	_	_	_	_	•	_	•	_	_	•	_	_		
Patents By Year of Grant: Patents By Year of Application:	4 5	0	1	0	0	1	0	0	0	0	0	0	0	0	0	6 6	
racents by rear Or Apprication:	5	U	U	1	U	U	U	U	U	U	U	U	U	U	U	O	
BENDIX CORPORATION (NOW ALLIED-SIGNAL	INC.)																
Patents By Year of Grant:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
Patents By Year of Application:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
BOEING COMPANY																	
Patents By Year of Grant:	3	0	0	0	1	0	0	1	0	0	1	0	0	0	0	6	
Patents By Year of Application:	3	1	1	0	0	0	0	0	1	0	0	0	0	0	0	6	
DD GUIDNIGALG LINIMED																	
BP CHEMICALS LIMITED	1	0	1	0	0	0	0	0	1	0	0	2	1	0	0	6	
Patents By Year of Grant: Patents By Year of Application:	2	0	0	0	0	0	0	1	0	0	3	0	1	0	0	6 6	
racenes by rear or Appricacion:	4	U	U	U	U	U	U	1	U	U	3	U	U	U	U	U	

Organizational Patenting				(Grante	d: Jan 0	1, 1977	- Dec 31	, 1999)	R	anked Li	st of Or	ganizati	ons with	5 or 1	More Pat	ents	
	Pre																
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
BRITISH TELECOMMUNICATION, PLC																	
Patents By Year of Grant:	0	0	0	0	0	1	0	0	1	1	2	0	0	1	0	6	
Patents By Year of Application:	0	0	0	0	1	1	0	2	2	0	0	0	0	0	0	6	
CASCHEM, INC.																	
		•	•	•	•	•	•	•	•	•	•	•	•	•	•	6	
Patents By Year of Grant:	1	0	0	0	0	2	3	0	0	0	0	0	0	0	0		
Patents By Year of Application:	1	0	0	0	4	1	0	0	0	0	0	0	0	0	0	6	
CASIO COMPUTER CO. LTD.																	
Patents By Year of Grant:	0	0	0	0	0	1	2	0	2	0	0	0	0	0	1	6	
Patents By Year of Application:	0	0	0	1	1	2	1	1	0	0	0	0	0	0	0	6	
CITIZEN WATCH CO., LTD.																	
Patents By Year of Grant:	4	0	0	0	1	0	0	0	0	1	0	0	0	0	0	6	
Patents By Year of Application:	4	0	1	0	0	0	0	1	0	0	0	0	0	0	0	6	
racence by rear or apprication.	*	•	-	· ·	· ·		· ·	-	•		Ů	·	· ·	•	•		
CDC TAMEDAN MICANIA TAG																	
CPC INTERNATIONAL INC.		_										_				_	
Patents By Year of Grant:	4	1	0	0	0	0	0	0	0	0	0	1	0	0	0	6	
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	6	
FORD MOTOR COMPANY																	
Patents By Year of Grant:	1	0	0	0	0	1	0	1	1	2	0	0	0	0	0	6	
Patents By Year of Application:	1	0	0	0	1	0	2	1	1	0	0	0	0	0	0	6	
GENERAL SIGNAL CORPORATION																	
Patents By Year of Grant:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
Patents By Year of Application:	6	U	U	U	U	U	U	U	U	U	U	U	U	U	U	6	
HERCULES INCORPORATED																	
Patents By Year of Grant:	3	1	0	0	0	0	0	0	0	0	1	0	1	0	0	6	
Patents By Year of Application:	4	0	0	0	0	0	0	0	1	0	1	0	0	0	0	6	
J. M. HUBER CORPORATION																	
Patents By Year of Grant:	3	0	0	0	0	0	0	0	0	0	0	2	1	0	0	6	
Patents By Year of Application:	3	0	0	0	0	0	0	0	0	0	3	0	0	0	0	6	
JOHNS-MANVILLE CORPORATION																	
Patents By Year of Grant:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
_					0		0		0	0		0	0			6	
Patents By Year of Application:	6	0	0	0	U	0	U	0	U	U	0	U	U	0	0	ь	
LITTON SYSTEMS INC.																	
Patents By Year of Grant:	2	0	0	0	1	0	0	1	0	0	1	1	0	0	0	6	
Patents By Year of Application:	3	0	0	0	0	0	1	0	1	1	0	0	0	0	0	6	

Organizational Patenting	(Granted: Jan 01, 1977 - Dec 31, 1999)	Ranked List of Organiza	tions with 5 or More Patents

Organizacional Facencing				(Grance	a. ban c	, , , , , ,	- Dec 31	, 1000)		anned Hi	BC OI OI	ganizaci	OIIS WICII	J 01	MOTE FAC	Cerros
	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
	1300	1500	1507	1700	1505	1000	1771	1332	1000	1334	1000	1330	1007	1550	1000	IOIAL
MOORE BUSINESS FORMS INC.																
Patents By Year of Grant:	3	0	0	0	0	1	1	0	0	0	1	0	0	0	0	6
Patents By Year of Application:	3	1	0	1	0	0	0	0	1	0	0	0	0	0	0	6
NIPPON STEEL CORP.																
Patents By Year of Grant:	4	0	0	0	0	0	0	1	0	0	1	0	0	0	0	6
Patents By Year of Application:	4	0	0	0	0	0	1	0	0	1	0	0	0	0	0	6
NORDSON CORPORATION																
Patents By Year of Grant:	1	0	0	0	1	2	0	0	0	0	1	0	0	1	0	6
Patents By Year of Application:	1	0	1	1	1	0	0	0	1	0	0	1	0	0	0	6
PAPST LICENSING GMBH & CO. KG																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	1	0	1	1	2	1	6
Patents By Year of Application:	0	0	0	0	0	0	1	0	1	0	2	0	1	1	0	6
POLAROID CORPORATION																
Patents By Year of Grant:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Patents By Year of Application:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
RHONE-POULENC AGROCHIMIE LIMITED																
Patents By Year of Grant:	1	4	1	0	0	0	0	0	0	0	0	0	0	0	0	6
Patents By Year of Application:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
SECRETARY OF STATE FOR DEFENCE IN HE	R BRITANN	IC MAJES	TY'S													
Patents By Year of Grant:	2	0	0	0	1	1	0	0	0	1	0	1	0	0	0	6
Patents By Year of Application:	2	0	1	1	0	0	0	0	1	0	1	0	0	0	0	6
SHIMANO INDUSTRIAL COMPANY, LIMITED																
Patents By Year of Grant:	5	0	0	0	1	0	0	0	0	0	0	0	0	0	0	6
Patents By Year of Application:	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	6
SINGER COMPANY																
Patents By Year of Grant:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Patents By Year of Application:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
UNITED STATES OF AMERICA, DEPARTMENT	OF ENERG	Y														
Patents By Year of Grant:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Patents By Year of Application:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
USX CORPORATION																
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	0	1	0	0	6
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	1	0	0	0	0	0	6

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Organizational Patenting				(Grante	ed: Jan (1, 1977	- Dec 31,	, 1999)	F	Ranked Li	st of Or	ganizati	ons with	5 or	More Pat	ents	
	Pre																
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
W. R. GRACE & COCONN.																	
Patents By Year of Grant:	4	0	0	0	0	0	0	0	0	0	1	1	0	0	0	6	
Patents By Year of Application:	4	0	0	0	0	0	0	0	2	0	0	0	0	0	0	6	
WESTVACO CORPORATION																	
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	1	0	0	6	
ATE PROPUGIES AND GUIDATONS AT THE																	
AIR PRODUCTS AND CHEMICALS, INC.	1	0		0	0	0	0		•	1	0	0	1	0	0	5	
Patents By Year of Grant:	1 2	0	1	0	0	0	1	1	0	0	0	1	1	0	0	5	
Patents By Year of Application:	4	U	U	U	U	U	1	_	U	U	U	1	U	U	U	5	
AKZO N.V.																	
Patents By Year of Grant:	1	0	1	0	0	0	0	0	1	0	1	1	0	0	0	5	
Patents By Year of Application:	2	0	0	0	0	0	2	1	0	0	0	0	0	0	0	5	
AMPEX CORP.																	
Patents By Year of Grant:	4	0	0	0	0	0	0	0	0	1	0	0	0	0	0	5	
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
ANALOG DEVICES, INC.																	
Patents By Year of Grant:	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	5	
Patents By Year of Application:	4	0	0	0	0	0	0	0	0	1	0	0	0	0	0	5	
ATELIERS DES CHARMILLES S.A.	_		_	_			_	_			_					_	
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
ATLANTIC RICHFIELD COMPANY																	
Patents By Year of Grant:	2	0	0	0	0	1	0	0	0	0	0	0	2	0	0	5	
Patents By Year of Application:	2	0	0	0	1	0	0	0	1	0	1	0	0	0	0	5	
racenes by rear or apprication.	-	ŭ	ŭ	ŭ	-	·	·	ŭ	-	·	-	Ū	·	·	ŭ	<u> </u>	
AUTOMOTIVE PRODUCTS PLC																	
Patents By Year of Grant:	0	0	0	0	2	1	1	0	0	0	1	0	0	0	0	5	
Patents By Year of Application:	0	0	1	2	0	1	0	0	1	0	0	0	0	0	0	5	
BOEHRINGER MANNHEIM G.M.B.H.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	1	2	1	0	0	1	0	5	
Patents By Year of Application:	0	0	0	0	0	0	1	2	1	0	0	1	0	0	0	5	
CHURCH + DWIGHT CO., INC.																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	4	0	0	0	0	5	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	4	0	0	0	0	0	5	

Organizational Patenting				(Grante	d: Jan 0	1, 1977	- Dec 31	, 1999)	R	anked Li	st of Or	ganizati	ons with	5 or	More Pat	ents	
	Pre																
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
CINCINNATI MILACRON INC.																	
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
COCA-COLA COMPANY	_	_					_	_					_		_	_	
Patents By Year of Grant:	1 2	1 1	0	0	0	2 1	0	1 0	0	0	0	0	0	0	0	5	
Patents By Year of Application:	2	1	1	0	U	1	Ü	U	U	U	U	0	0	U	U	5	
FMC CORPORATION																	
Patents By Year of Grant:	3	0	0	0	0	0	0	0	0	0	1	0	1	0	0	5	
Patents By Year of Application:	3	0	0	0	0	0	0	0	1	0	0	1	0	0	0	5	
INTERNATIONAL FLAVORS + FRAGRANCES INC																	
Patents By Year of Grant:	3	0	1	1	0	0	0	0	0	0	0	0	0	0	0	5	
Patents By Year of Application:	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
LAITRAM CORPORATION																	
Patents By Year of Grant:	1	0	0	0	1	0	0	1	0	2	0	0	0	0	0	5	
Patents By Year of Application:	2	0	0	0	0	0	1	0	2	0	0	0	0	0	0	5	
MERCK + CO., INC.																	
Patents By Year of Grant:	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	5	
Patents By Year of Application:	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5	
MOLINS LIMITED Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
racones by rear or approaches.	-	Ū	·	v	ŭ	· ·	v	· ·	Ū	v	ŭ	Ū	ŭ	·	·	,	
NIPPON SEIKO KABUSHIKI KAISHA																	
Patents By Year of Grant:	0	0	0	1	0	1	0	2	1	0	0	0	0	0	0	5	
Patents By Year of Application:	0	1	0	0	1	2	0	1	0	0	0	0	0	0	0	5	
NIPPON THOMPSON CO., LTD.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0 1	1	3	1	0	0	0	5 5	
Patents By Year of Application:	0	U	0	0	0	U	U	0	1	3	1	0	0	0	0	5	
PPG INDUSTRIES INC.																	
Patents By Year of Grant:	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
ROLLS-ROYCE PLC																	
Patents By Year of Grant:	2	0	0	0	0	0	0	0	2	0	0	0	1	0	0	5	
Patents By Year of Application:	2	0	0	0	0	1	0	1	0	0	1	0	0	0	0	5	

Organizational Patenting				(Grante	ed: Jan 0	1977	- Dec 31	, 1999)	R	anked Li	st of Or	ganizati	ons with	5 or 1	More Pat	ents	
	Pre																
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
SANDEN CORPORATION																	
Patents By Year of Grant:	0	0	0	1	1	0	0	1	0	0	0	0	1	1	0	5	
Patents By Year of Application:	0	0	2	0	0	1	0	0	0	0	1	1	0	0	0	5	
SANTA FE INTERNATIONAL CORPORATION																	
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
SCM CORPORATION																	
Patents By Year of Grant:	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Patents By Year of Application:	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
SGS-THOMSON MICROELECTRONICS, INC.																	
Patents By Year of Grant:	0	0	0	1	0	0	0	0	0	0	1	0	1	1	1	5	
Patents By Year of Application:	0	0	1	0	0	0	0	1	0	2	0	0	1	0	0	5	
1400.000 27 1041 01 1.FF110401011			_				•	_		-			-	•			
STANFORD UNIVERSITY, LELAND JUNIOR, T	HE BOADD	רב יים ווכי	TEES OF														
Patents By Year of Grant:	1	0 1105	0	0	0	1	0	0	0	1	1	1	0	0	0	5	
Patents By Year of Application:	2	0	0	0	0	1	0	0	2	0	0	0	0	0	0	5	
racence by rear or Apprication:	2	U	U	U	U		U	U	4	U	U	U	U	U	U	5	
STERLING DRUG INC.																	
	_	_		_			•									_	
Patents By Year of Grant:	3	1	0	1	0	0	0	0	0	0	0	0	0	0	0	5	
Patents By Year of Application:	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5	
SUMITOMO CHEMICAL COMPANY, LIMITED																	
Patents By Year of Grant:	0	1	1	0	0	0	0	2	0	0	0	0	0	1	0	5	
Patents By Year of Application:	1	1	0	0	0	0	2	0	0	1	0	0	0	0	0	5	
SUNDSTRAND CORPORATION																	
Patents By Year of Grant:	3	0	0	0	0	1	0	0	0	0	1	0	0	0	0	5	
Patents By Year of Application:	3	0	0	0	1	0	0	1	0	0	0	0	0	0	0	5	
TEKTRONIX INC.																	
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
TORAY INDUSTRIES INC.																	
Patents By Year of Grant:	2	0	0	1	0	0	1	0	0	0	0	0	0	0	1	5	
Patents By Year of Application:	2	0	1	0	1	0	0	0	0	0	0	1	0	0	0	5	
TORRINGTON COMPANY																	
Patents By Year of Grant:	0	0	0	0	0	0	0	2	1	2	0	0	0	0	0	5	
Patents By Year of Application:	0	0	0	0	0	1	2	1	1	0	0	0	0	0	0	5	

	Technology	Assessment	and	Forecast	Report	
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Patents By Year of Grant:

Patents By Year of Application:

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Organizational Patenting				(Granted: Jan 01, 1977 - Dec 31, 1999)					Ranked List of Organizations with					5 or More Patents			
	Pre																
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
UNIROYAL, INC.																	
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
UNIVERSITY OF MINNESOTA, THE REGENTS	OF																
Patents By Year of Grant:	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	5	
Patents By Year of Application:	3	0	0	1	0	0	0	0	1	0	0	0	0	0	0	5	
WACOM CO., LTD.																	
Patents By Year of Grant:	0	0	0	0	0	0	1	2	1	0	0	1	0	0	0	5	
Patents By Year of Application:	0	0	0	0	2	2	0	0	1	0	0	0	0	0	0	5	
Other Organizations (2958)																	